

## APPENDIX C6

The IP network 100 employs a function of IP encapsulation and decapsulation used in the prior patent. The function of the IP network is to be summarized as in the following. The IP network 100 includes two or more network node units. When inputting an external IP packet from a logical terminal unit at an end of the communication line 117, the external IP packet turns into an internal packet under the control of the address management table within the network node unit 105. The internal packet is transferred in the IP network to reach a network node unit 113. The internal packet is restored as an external IP packet under the control of the address management table of within the network node unit 113.